

Title (en)

Neutral gray-colored infrared and ultraviolet radiation absorbing glass.

Title (de)

Infrarot und ultraviolette Strahlung absorbierendes, neutral grau gefärbtes Glas.

Title (fr)

Verre absorbant les rayons infrarouges et ultraviolets coloré en gris neutre.

Publication

EP 0565882 A1 19931020 (EN)

Application

EP 93104240 A 19930316

Priority

- JP 6374992 A 19920319
- JP 18701592 A 19920714

Abstract (en)

An infrared and ultraviolet radiation absorbing glass suitable for use in building and vehicle windows, which comprises, on a weight basis, 68-74% of SiO₂, 0.1-3.0% of Al₂O₃, 8-11% of CaO, 2-4.5% of MgO, 11.5-16% of Na₂O, 0.5-3.0% of K₂O, 0.1-0.4% of SO₃, 0.10-0.55% of total iron expressed as Fe₂O₃, 0.2-0.6% of CeO₂, 15-35 ppm of CoO and 2-18 ppm of Se. In the glass the ratio of ferrous iron to ferric iron is in the range from 0.17 to 0.55. The glass has a neutral grayish tint and is well balanced in visible light transmittance, infrared radiation absorption and ultraviolet radiation absorption, and a sheet of the glass can be easily tempered by a conventional method. <IMAGE>

IPC 1-7

C03C 3/087; **C03C 4/02**; **C03C 3/095**; **C03C 4/08**

IPC 8 full level

C03C 3/095 (2006.01); **C03C 4/02** (2006.01); **C03C 4/08** (2006.01)

CPC (source: EP US)

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Citation (search report)

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